

Precalculus Teacher Collaboration 2019-20

Providing remote and in-person support for teaching and learning

Overview. This project will provide two NC public school teachers with an opportunity to collaborate with each other and an NCSSM Mathematics Instructor during the Fall semester of the 2019-20 school year. Then in the Spring semester, the project will continue with 2 new NC Precalculus teachers.

In this collaboration, the NCSSM Math teacher will provide remote instruction for students and customized support for on-site teachers. NCSSM will provide resources in the form of an electronic version of the 3rd Edition of *Contemporary Precalculus Through Applications*, a Precalculus text authored by Math Department Faculty at NCSSM. NCSSM seeks 2 teachers from different school districts to participate in the fall semester and then 2 teachers in the spring semester.

Goal: The goal of this collaborative project is to expand access to resources and professional development through a combination of remote delivery of instruction and coaching paired with in-person student support.

Anticipated Outcomes

- Teacher growth in the areas of effective use of technology and the use of hands-on, real-world tasks
- Student growth in the areas of critical thinking, collaboration and problem-solving skills

Participation Criteria. Districts and school participants are being identified during Summer 2019. Teachers must meet the following criteria to qualify for the collaboration:

- **On block schedule**
- **Currently scheduled to teach Pre-Calculus during 3rd block during Fall 2019 or Spring 2020**

We are particularly interested in working with teachers at schools that also have the following characteristics:

- Limited advanced course offerings, including AP courses
- Desire to offer AP Calculus to more students

Benefits of Participating. Participating teachers will receive instructional delivery, coaching, and development from an experienced NCSSM math. The NCSSM instructor will support teachers by:

- Developing/adapting instructional materials for on-site teachers including NCSSM's digital Pre-Calculus textbook
- Introducing and practicing instructional delivery for specific content with on-site teachers
- Leading a portion of the class
- Co-Teaching with the on-site teachers
- Providing small group instruction
- Providing weekly to daily coaching with individual teachers, based on need
- Facilitating weekly team meetings

Prep Calls

Near the end of the summer of 2019, the NCSSM teacher will schedule calls as needed with on-site teachers to establish classroom procedures, introduce technology processes, and introduce course materials and resources.

Spring Semester Professional Learning Opportunity: Participating teachers will receive complimentary registration for NCSSM's annual conference. [Teaching Contemporary Mathematics Conference](#) held at NCSSM January 24-25, 2020

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